

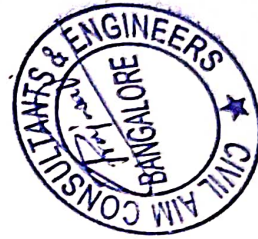
Name of Work: Asphaltting to road from BBMP, Bangalore.

SL. No.	Item	Quantity As Per BOQ	Required No's of testes	Actual No's of testes	Testes		Frequency
					Cement	Sand	
1	Material	-	1	1			One Test Per Lot
2	Slab (100mm)	63.90 Sqm	1	1	Concrete Core Compressive Strength		-
3	GSB - V	44.33 Cum	-	-			-
4	WMM	44.33 Cum	1	1			-
		Gradation	1	1			-
		AIV	1	1			-
		Shape Test	1	1			-
		Arterberg Limits	-	-			-
		159.75 Cum	1	1			-
5	BM	Quality of Binder	1	1			-
		AIV	1	1			-
		Shape Test	1	1			-
		Gradation	1	1			-
		Specific Gravity	1	-			-
		Bitumen content	-	1			-
		127.80 Cum	1	1			-
6	BC	Quality of Binder	1	1			-
		AIV	1	1			-
		Shape Test	1	1			-
		Gradation	1	2			-
		Specific Gravity	2	2			-
		Stability of Mix	2				-
		Bitumen content					-

0-5 Cum 1Set
6-15 Cum 2Set
16-30 Cum 3Set
31-50 Cum 4Set
Add 1set for extra 50Cum

Cubes

Ravi
gms



CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)



An ISO 9001-2015 Certified Company
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Job No.: CACE/BBMP/RR/W.No.01/2021-22

Date: 01.10.2021

TEST REPORT

CLIENT	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
AGENCY	:	Sri. R Ranganath, Contractor, Bangalore.
NAME OF THE WORK	:	Asphalting to road from BBMP revenue office towards Down bazar road upto N H in Ward No.01 Kempegowda of Yelahanka Sub Division, BBMP, Bangalore.
SAMPLE ID	:	Cement (Zuari OPC 53 Grade)
DATE OF MANUFACTURE		August- 2021
DATE OF TESTING		29.09.2021 to 01.10.2021
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

A&E-1

Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	130 Minutes	Not Less than 30 Minutes
1	b) Final Setting Time	IS-4031 (Part -5)	340 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

Note:

- ⇒ The report shall not be reproduced, except in full, without the written approval of the laboratory.
- ⇒ The results indicated above are based on the tests carried out on the samples collected at the site.
- ⇒ Any Query regarding the report must be reported within 30days from the date of testing.

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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Date : 20.10.2021

TEST RESULTS OF AGGREGATE SHAPE TEST (Flakiness & Elongation)

Client : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Agency : Sri. R Ranganath, Contractor, Bangalore.
Name of work : Asphaltting to road from BBMP revenue office towards Down bazar road upto N H
in Ward No.01 Kempegowda of Yelahanka Sub Division, BBMP, Bangalore.
BIS Code : IS 2386 Part (1):1963
Date of Test : 20.10.2021
Type of Mix : Dense Graded Bituminous Macadam

Sl.No.	Flakiness Index Value(%)	Elongation Index Value(%)	Total(Combined Flakiness and Elongation)(%)	Requirements
1	12.10	13.80	25.90	Maximum allowable Combined Flakiness and Elongation Indices for Dense Graded Bituminous Macadam is 35% as per Table 500.8 MORTH Specification.
2	12.90	13.50	26.40	

Note:

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2. The results indicated above are based on the tests carried out on the samples collected at the site.
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Job No.: CACE/BBMP/RR/W.No.01/2021-22

Date: 27.10.2021

TEST REPORT ON STABILITY OF MIX

Client	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	Sri. R Ranganath, Contractor, Bangalore.
Name of the Work	:	Asphalting to road from BBMP revenue office towards Down bazar road upto N H in Ward No.01 Kempegowda of Yelahanka Sub Division, BBMP, Bangalore.
Type of Mix	:	Dense Graded Bituminous Macadam
Date of Testing	:	27.10.2021

The results of the tests conducted on the Dense Graded Bituminous Macadam mix sample are as follows:

Sl. No	Description	Test Result 1	Test Result 2	Requirement as per MORTH (Table 500-19)
1	Marshal Stability, Kn	9.48	10.21	9 Kn (min)
2	Marshal flow, mm	2.63	3.84	2 - 4
3	Percent air voids in Mineral Aggregate	13.92	14.55	13 - 15
4	Voids in Compacted Mix	3.84	4.63	3 - 6
5	Percent Voids filled with Bitumen	68.98	69.71	65 - 75
6	Density, g/cc	2.25	2.27	--

Note:

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